Bus Stops, New York NY, May 2019

Resource Identification Information

CITATION

TITLE Bus Stops, New York NY, May 2019

PUBLICATION DATE 2019-05-31

EDITION may2019
PRESENTATION FORMAT mapDigital

SERIES
NAME NYC Mass Transit Spatial Layers

RESPONSIBLE PARTY - POINTOFCONTACT

ORGANIZATION'S NAME Newman Library, Baruch CUNY
CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION
ADDRESS
DELIVERY POINT 151 E 25th St Box H-0520
DELIVERY POINT Newman Library, Baruch CUNY
CITY New York
ADMINISTRATIVE AREA NY
POSTAL CODE 10010
COUNTRY UNITED STATES

THEMES OR CATEGORIES OF THE RESOURCE structure, transportation

PLACE KEYWORDS
KEYWORDS City of New York, 2395220, Borough of Bronx, 978756, Borough of Brooklyn, 978759, Borough of Manhattan, 979190, Borough of Queens, 979404, Borough of Staten Island, 979522

THESAURUS

TITLE Geographic Names Information Service (GNIS)
ALTERNATE TITLES ANSI INCITTS 446:2008

PUBLICATION DATE 2008-01-01

PLACE KEYWORDS
KEYWORDS Bronx County, 36005, Kings County, 36047, New York County, 36061, Queens County, 36081, Richmond County, 36085
This point layer was created from the GTFS data feeds from the Metropolitan Transportation Authority (MTA). It represents the local bus stop locations (individual locations where one or more buses make stops) for the MTA NYC Transit bus routes. A python script was written to take the data files as input and process them to create a spatial layer in the local state plane coordinate reference system. The unique ID is stop_id, a field created by the MTA. This layer was created as part of the NYC Mass Transit Spatial Layers series, and is updated biannually to account for changes in the transit system.

This dataset is intended for researchers, policy makers, students, and educators for basic geographic analysis and mapping purposes. It was created by the GIS Lab at the Newman Library at Baruch College CUNY as part of the NYC Mass Transit Spatial Layers series, so that members of the public could have access to well-documented and readily-usable GIS layers of NYC mass transit features.

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RESOURCE CONSTRAINTS
LEGAL CONSTRAINTS
ACCESS CONSTRAINTS licenseUnrestricted

USE CONSTRAINTS license

SPATIAL REPRESENTATION TYPE vector

PROCESSING ENVIRONMENT Version 6.2 (Build 9200) ; Esri ArcGIS 10.4.1.5686

EXTENT
EXTENT DESCRIPTION
City of New York

GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT CONTAINS THE RESOURCE true
WEST LONGITUDE -74.040963
EAST LONGITUDE -73.779182
NORTH LATITUDE 40.762565
SOUTH LATITUDE 40.572425

TEMPORAL EXTENT
BEGINNING DATE 2019-05-01 00:00:00
ENDING DATE INDETERMINATE TIME unknown

EXTENT
GEOGRAPHIC EXTENT
BOUNDING RECTANGLE
EXTENT CONTAINS THE RESOURCE true
WEST LONGITUDE -74.253551
EAST LONGITUDE -73.700679
NORTH LATITUDE 40.912418
SOUTH LATITUDE 40.502872

SUPPLEMENTAL INFORMATION
The GEOID field contains the ANSI / FIPS state-county code that indicates the location of the feature.

POINT OF CONTACT - POINT OF CONTACT
ORGANIZATION'S NAME Newman Library, Baruch CUNY
CONTACT'S POSITION Geospatial Data Librarian

CONTACT INFORMATION
ADDRESS
DELIVERY POINT Newman Library, Baruch CUNY
DELIVERY POINT 151 E 25th St Box H-0520
CITY New York
ADMINISTRATIVE AREA NY
POSTAL CODE 10010
Spatial Representation - Vector

**LEVEL OF TOPOLOGY FOR THIS DATASET** geometryOnly

**GEOMETRIC OBJECTS**
- **OBJECT TYPE** point
- **OBJECT COUNT** 15164

Reference System Information

**REFERENCE SYSTEM IDENTIFIER**
- **VALUE** 2263

**CODESPACE** EPSG
- **VERSION** 10.2

Data Quality Information

**SCOPE OF QUALITY INFORMATION**
- **RESOURCE LEVEL** dataset

**LINEAGE**

**LINEAGE STATEMENT**
This point layer was created using the data feeds from the Metropolitan Transportation Authority (MTA). The MTA provides text files that contain route information in a General Transit Feed Specification (GTFS) format, and are geographically referenced so they are able to be plotted. A python script was written to take the text files for each borough as input, process them and create a spatial layer for entire New York City. The text files used for point geometry creation are 'stops.txt' and they provide geographically referenced data for the stops in the form of points. Information from additional files, stop_times.txt and trips.txt was joined to the created geometry based on common field to obtain an id of the routes that stop at the bus station. The route id was used to separate local bus routes stops from stops for express bus routes. Stops that are shared by both local and express busses were duplicated so that they appear in both files. Counties from the Census TIGER files were spatially joined to the bus stops, so that every bus stop is assigned the state-county ANSI FIPS code (GEOID) to indicate its location. Stops for each borough were joined into a single New York City stops layer. The final layer was reprojected from NAD 83 to NY State Plane Long Island in feet and saved in a shapefile format. The unique ID is stop_id, a field created by the MTA. This layer was created as part of the NYC Mass Transit Spatial Layers series, and is updated biannually to account for changes in the transit system.

**SOURCE DATA**
- **LEVEL OF THE SOURCE DATA** Metropolitan Transportation Authority

**SOURCE CITATION**
- **TITLE** MTA NYC Transit Stops File
Distribution Information

Distributor
Distributor Information - pointOfContact
Organization's Name  Newman Library, Baruch CUNY
Contact's Position  Geospatial Data Librarian

Contact Information
Address
Delivery Point  Newman Library, Baruch CUNY
Delivery Point  151 E 25th St Box H-0520
City  New York
Administrative Area  NY
Postal Code  10010
Country  United States

Format
Name  Shapefile
Version  nil reason  missing

Transfer Options
Transfer Size  0.126

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Metadata Information

Last Update  2019-05-29
Maintenance
Update Frequency  biannually

Maintenance Notes  This metadata record was updated by Frank Donnelly in May 2019

Metadata Constraints
Constraints
Limitations of Use
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METADATA CONTACT - POINTOFCONTACT

ORGANIZATION’S NAME Newman Library, Baruch CUNY
CONTACT’S POSITION Geospatial Data Librarian

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ADDRESS
DELIVERY POINT 151 E 25th St Box H-0520
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SCOPE OF THE DATA DESCRIBED BY THE METADATA dataset

METADATA LANGUAGE English
METADATA CHARACTER SET utf8

NAME OF THE METADATA STANDARD USED  NAP - Metadata
VERSION OF THE METADATA STANDARD 1.2

METADATA IDENTIFIER E81E97F2-B049-4BA4-AAD9-FECBAE37F0EC
URI OF THE DATA DESCRIBED BY THE METADATA https://www.baruch.cuny.edu/confluence/display/geoportal/NYC+Mass+Transit+Spatial+Layers